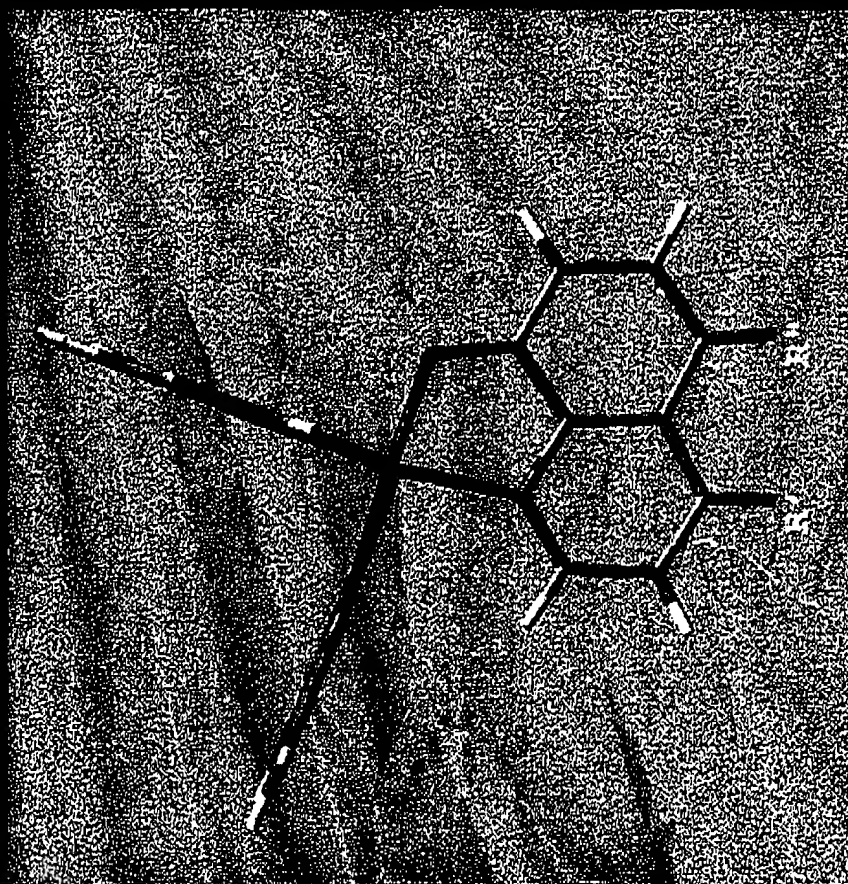


| R'   | R''        | Abs. peak* |
|------|------------|------------|
| -CH3 | ---        | 1.3        |
| ---  | -CX3       | 1.3        |
| -CH3 | -CX3       | 1.4        |
| -NH2 | ---        | 1.7        |
| ---  | -SO3R      | 1.9        |
| ---  | -CH=CH2    | 1.8        |
| ---  | -CX=CX2    | 3.0        |
| -OH  | -CX=CX2    | 4.0        |
| ---  | -Ph        | 1.3        |
| ---  | -PhX3      | 1.6        |
| ---  | (5,6)benzo | 1.6        |

\* normalized to Alq<sub>3</sub>

X=halogen



# Ligand substitution matrix fluorescence spectrum

